

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1-12. (Cancelled).

13. (Currently amended) A music reproduction apparatus comprising:
an audio player; and
a pair of left and right headphones connected to said audio player via a wireless digital data transmission channel, wherein:
said audio player comprising comprises:
a transmitter digital modulator configured to transmit left and right digital music data to the left and right headphones via the wireless digital data transmission channel, and
each of said left and right headphones comprising each comprise:
a receiver configured to receive the left and right digital music data transmitted from said audio player[[;]], and
a data extracting section configured to extract a respective one of the left and right digital music data received by said receiver.

14-15. (Cancelled).

16. (Original) The music reproduction apparatus according to claim 13, wherein said audio player comprises an interface capable of wirelessly connecting a plurality of headphones.

17-20. (Cancelled).

21. (Currently amended) A music reproduction apparatus comprising:
an audio player; and
a pair of left and right headphones connected to said audio player via a wireless digital data transmission channel,
said audio player comprising a transmitter digital modulator
configured to transmit, via the wireless digital data transmission channel,
~~left and right digital music data to the left and right headphones~~
~~respectively digital music data to the left headphone exclusive of the right~~
~~digital music data, and transmit right digital music data to the right~~
~~headphone exclusive of the left digital music data.~~

22-23. (Cancelled).

24. (Currently Amended) The music reproduction apparatus according to claim 21, wherein said audio player comprises an interface capable of wirelessly connecting to a plurality of headphones.

25-28. (Cancelled).

29. (New) The music reproduction apparatus according to claim 13, wherein said digital modulator is a spread spectrum transmitter configured to hop among a plurality of frequencies.

30. (New) The music reproduction apparatus according to claim 13, wherein the left and right digital music data are time-division multiplexed to a respective one of the left and right headphones by said digital modulator.

31. (New) The music reproduction apparatus according to claim 21, wherein said digital modulator is a spread spectrum transmitter configured to hop among a plurality of frequencies.

32. (New) The music reproduction apparatus according to claim 21, wherein the left and right digital music data are time-division multiplexed to a respective one of the left and right headphones by said modulator.

33. (New) A pair of headphones comprising:

a left-side receiver; and

a right-side receiver, wherein:

said left-side receiver is configured to receive left-side digitally modulated data transmitted from an audio player via a wireless digital data transmission channel, and

 said right-side receiver is configured to receive right-side digitally modulated data transmitted from the audio player via the wireless digital data transmission channel.

34. (New) The pair of headphones according to claim 33, wherein:

 said left-side receiver is configured to receive the left-side digitally modulated data exclusive of the right digitally modulated data; and

 said right-side receiver is configured to receive the right-side digitally modulated data exclusive of the left-side digitally modulated data.

35. (New) The pair of headphones according to claim 33, wherein:

 said left-side receiver is configured to receive both the left-side and right-side digitally modulated data, but extract only the left-side digitally modulated data; and

 said right-side receiver is configured to receive both the left-side and right-side digitally modulated data, but extract only the right-side digitally modulated data.

36. (New) The pair of headphones according to claim 33, wherein said left-side receiver and said right-side receiver receive the respective left-side and right-side digitally modulated data from the audio player via the wireless digital data transmission channel.

37. (New) The pair of headphones according to claim 33, wherein the left-side and right-side digitally modulated data are received in a spread spectrum transmission that hops among a plurality of frequencies.

38. (New) The pair of headphones according to claim 33, wherein the left-side and right-side digitally modulated data are time-division multiplexed for a respective one of said left-side receiver and right-side receiver.